

WHAT IS CLAIMED IS:

Sub. B1
1. A method for treating and preventing bacterial infections in an animal comprising feeding an animal a polysaccharidase enzyme in an amount effective for treating and preventing bacterial infections in the animal.

~~2. The method of claim 1 wherein the animal is fed the enzyme and an animal feed.~~

does not further limit claim 1 (no change)

Sub. B2
3. The method of claim 1 wherein the enzyme is mixed with an animal feed to form an enzyme/feed mixture, and the enzyme/feed mixture is fed to the animal.

4. The method of claim 1 wherein the enzyme is fed to the animal in drinking water.

~~5. The method of claim 2 wherein the enzyme mixture is fed to the animal along with a second animal feed.~~

6. The method of claims 1, 2, 3, or 4 wherein the enzyme is fed to the animal in an amount of about 0.0001 to about 10 grams of enzyme per kg of the animal feed fed to the animal.

Sub. B3
7. The method of claim 6 wherein the enzyme is fed to the animal in an amount of about 0.001 to about 1 gram of enzyme per kg of the animal feed fed to the animal.

8. The method of claim 6 wherein the enzyme is fed to the animal in an amount of about 0.01 to about 0.1 gram of enzyme per kg of the animal feed fed to the animal.

9. The method of claim 1 wherein the enzyme is selected from the group consisting of a xylanase, cellulase, and mixtures thereof.

10. The method of claim 9 wherein the enzyme is a cellulase enzyme.

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11. The method of claim 10 wherein the enzyme is a β -glucanase. *

12. The method of claim 1 wherein the enzyme has a form selected from the group consisting of a liquid form, a pellet, and a mash.

Sub. B4 13. The method of claim 1 wherein the animal feed ^{further} comprises at least about 25% by weight of a cereal.

~~14. The method of claim 13 wherein the cereal is selected from the group consisting of wheat, maize, rye, barley, oats, triticale, rice, sorghum and mixtures thereof.~~

Sub. B5 15. The method of claim 14 wherein the cereal is wheat.

~~16. The method of claim 13 wherein the animal feed further comprises a source of protein selected from the group consisting of fishmeal, meatmeal, vegetable protein, and mixtures thereof.~~

17. The method of claim 9 wherein the xylanase enzyme is obtained from a fungus selected from the group consisting of Trichoderma, Aspergillus, Humicola, Neocallimastix, and mixtures thereof. } spec.

Sub. B6 18. The method of claim 9 wherein the xylanase enzyme is obtained from a bacteria selected from the group consisting of Bacillus, Streptomyces, Clostridium, Ruminococcus, and mixtures thereof.

19. The method of claim 1 wherein the method is effective for treating and preventing bacterial infections in poultry, ruminants, swine, cats, dogs, rodents, and fish.

20. The method of claim 1 wherein the method is effective for treating and preventing bacterial infections caused by bacteria selected from the group consisting of *Salmonella enteritidis*, *Campylobacter jejuni*, *Clostridium perfringens*, and mixtures thereof.

Add C1

Add 77

Add B7